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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/899,915	07/09/2001	Simon Tam	110032 4511		
25944 75	90 11/16/2004		EXAMINER		
OLIFF & BERRIDGE, PLC			LIANG, REGINA		
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
	.,		2674		
		DATE MAILED: 11/16/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	Application No.		Applicant(s)			
		09/899,91	5	TAM, SIMON				
		Examiner		Art Unit				
		Regina Li		2674				
The Period for Rep	MAILING DATE of this communically	ntion appears on the	cover sheet with the c	orrespondence ac	ddress			
THE MAILII - Extensions of after SIX (6) I - If the period f - If NO period f - Failure to rep Any reply rec	NED STATUTORY PERIOD FOR NG DATE OF THIS COMMUNIC, if time may be available under the provisions of MONTHS from the mailing date of this communior reply specified above is less than thirty (30) of or reply is specified above, the maximum statut ly within the set or extended period for reply will eived by the Office later than three months after them adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no ever cation. days, a reply within the state ory period will apply and wil, by statute, cause the app	ent, however, may a reply be tin story minimum of thirty (30) day Il expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).				
Status				*				
1)⊠ Resp	onsive to communication(s) filed	on <u>20 September 2</u>	<u>2004</u> .					
2a) This action is FINAL . 2b) This action is non-final.								
3)☐ Since	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
close	d in accordance with the practice	under Ex parte Qu	ayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of	Claims							
4)⊠ Claim	4)⊠ Claim(s) <u>4,5,7,10-14,27,29-34,36 and 39-43</u> is/are pending in the application.							
4a) O	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim	5)⊠ Claim(s) <u>36 and 38-43</u> is/are allowed. 6)⊠ Claim(s) <u>4,5,7,10-14,27 and 29-34</u> is/are rejected.							
	n(s) is/are objected to.			**				
8) Clain	n(s) are subject to restriction	on and/or election re	equirement.					
Application Pa	apers							
9)∐ The s	pecification is objected to by the E	Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
ii)ine o	ath or declaration is objected to b	y the Examiner. No	ote the attached Office	Action or form P	10-152.			
Priority under	35 U.S.C. § 119							
	owledgment is made of a claim for	r foreign priority un	der 35 U.S.C. § 119(a)-(d) or (f).				
a)∟ Aii 1.□	a) All b) Some * c) None of:							
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 								
3.□	Copies of the certified copies of		• •		I Stage			
_	application from the International	•			J			
* See th	e attached detailed Office action t	for a list of the certi	fied copies not receive	ed.				
Attachment(s)								
1) Notice of Re	eferences Cited (PTO-892)		4) Interview Summary		•			
	aftsperson's Patent Drawing Review (PTC Disclosure Statement(s) (PTO-1449 or PT		Paper No(s)/Mail Do 5) Notice of Informal F		O-152)			
	/Mail Date	O/SB/00)	6) Other:	hh				

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DETAILED ACTION

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/20/04 has been entered.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

3. Claims 4, 5, 7, 10-14, 27, 29-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Dawson (US. PAT. NO. 6,229,506 hereinafter Dawson)

As to claim 12, Fig. 2 of Dawson discloses a circuit for controlling a current supply to an electroluminescent element (OLED), comprising providing a current path during a programming stage (Load Data phase), the current path connecting to a current sink through a data line (see col. 3, lines 31-53), and providing a current path during a reproduction stage (Continuous Illuminating Phase) the current path passing through OLED (col. 3, lines 54-65).

As to claims 4, 11, 27, 32, Fig. 3 of Dawson discloses a driver circuit to drive a pixel of an electroluminescent element (OLED), the circuit comprising a transistor (P1) connected so as to operatively control a current supplied the OLED, a first switching device (e.g., P4) connected so as to establish a current path which a data current follows during a programming stage, the

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data current flowing through the transistor during a programming stage (the stage for charging the capacitor Cc, see col. 4, line 60 to col. 5, line 21 for example), a second switching device (e.g., P2) connected so as to establish a current path through the transistor and the OLED during a reproduction stage (the stage for driving the OLED), the first switching device being connected such that the current path does not pass through the OLED during the programming stage (P2 is off when charging the Cc), the first and second switching devices being controlled by respective control signals supplied from separate signal lines (P3, P4 are controlled by signal lines 330 and 320, P2 is controlled by signal line 340).

As to claims 5, 7, Fig. 3 of Dawson teaches a third switching device (P3) as claimed.

As to claim 10, Dawson teaches the circuit is implemented with polysilicon TFT (col. 2, lines 57-59).

As to claims 13, 14, 33, Dawson teaches the electroluminescent display device comprising driver circuit and an electronic apparatus incorporating the electroluminescent display device.

As to claim 29, Dawson teaches the transistor is a p-channel TFT.

As to claim 30, col. 4, lines 16-18 of Dawson teaches the switching devices comprising all n-channel TFT.

As to claim 31, Dawson teaches the first current path and the second current path include a transistor (P1 in Fig. 3).

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Claim Rejections - 35 USC § 103

4. Claims 12 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bae et al (US. PAT. NO. 6,580,408 hereinafter Bae).

As to claims 12 and 34, Figs. 2-4 of Bae discloses a circuit for controlling a current supply to an EL, comprising providing a current path during a programming stage (the stage for charging the capacitor C_{STO} in which T1 and T4 are turned on, see col. 4, lines 36-41), providing a current path during a reproduction stage (the stage for driving the EL in which T1, T4 are turned off, and T2 is turned on), the current path passing through the EL (col. 4, lines 44-52). Bae does not explicitly disclose the current path during the programming stage connecting to a current sink through a data line. However, Bae teaches a current driving source connected a stage of the data line (col. 6, lines 19-20, and Figs. 2-4 of Bae show that each the data line D having a current source Io), which is the same as applicant's Fig. 5 where each of data line connecting to a current source I_{DAT} to provide a current sink through a data line). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to realize the circuit of Bae having the current path connecting to a current sink through a data line during the programming stage as claimed in the same manner as applicant.

Allowable Subject Matter

5. Claims 36, 38-43 are allowed.

Response to Arguments

6. Applicant's arguments filed 9/20/04 have been fully considered but they are not persuasive.

Applicant's remarks regarding Dawson on page 8 are not persuasive. Dawson teaches at the end of Auto Zero phase (stage for charging the capacitor Cc), the select line was set to "Low" to turn on P4, the data line 310 is set to a data voltage, this data voltage is transmitted through capacitor Cc 350 onto the gate of transistor P1 (col. 5, lines 15-19), which reads on a first switching device (P4) connected so as to establish a current path through which a data current flows during a programming stage, the data current flowing through the transistor (P1) during the programming stage as claimed. Furthermore, Fig. 3 of Dawson teaches during the stage for charging the capacitor Cc (programming stage), the illuminate line 340 is set to "High" so that the transistor P2 is turned off (col. 5, lines 1-3), thus, when the transistor P2 is turned off, the current path does not pass through the OLED.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Regina Liang whose telephone number is (703) 305-4719. The examiner can normally be reached on Monday-Friday from 9AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

REGIÑA LIANG PRIMARY EXAMINER ART UNIT 2674

RL 11/10/04